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United States Army  
**Redstone Technical Test Center (RTTC)**



**What We Do**

## Propulsion

RTTC's Test Area 5 supports the static testing of liquid, solid, and hybrid rocket motors. This test area consists of a fully instrumented blockhouse, ammunition storage igloos, and multiple test stands using the latest test equipment and technologies.



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### Primary Services and Capabilities

- Propulsion system static testing/firing
  - Testing of solid, liquid, and hybrid rocket motors
  - Vertical testing of liquid rocket engines
  - Motor/engine performance
  - Plume RF attenuation and signature testing
  - Hydrodynamic burst and proof testing
  - Safety test capability
  - Environmental conditioning
  - Thermal ablative test capability
  - Survivability and vulnerability testing
- High-altitude static testing (Liquid fueled thruster testing)
- Turbo-shaft engine testing (Testing of helicopter engines)



CASTOR static  
firing



Static firing of  
Lance MMA



Liquid-fueled  
thruster test  
facility

## Supplementary Services

- High-speed data acquisition systems
- Failure analysis
- Rocket motor dissection operations

## Specialized Facilities and Equipment

- Army's largest static test facility
- Five static test stands (non-air breathing propulsion subsystem)
  - Up to 10-million-pounds horizontal thrust
  - Up to 150,000-pounds vertical thrust
  - Ten test positions
  - Six Degree-of-Freedom (6-DOF) test facilities
- Air-breathing propulsion subsystem test cell
- Fully instrumented blockhouse with conference and meeting rooms
- Cold gas blow-down facilities
- Environmental conditioning chambers
- Secure storage and test facilities
- Propellant Dissection

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